

SPECIFICATION AMENDMENTS

Please replace the paragraph that begins on page 1, line 20 with the following:

Conventional retail stores ("brick and mortar" stores) present music to consumers inefficiently. When a consumer goes to a retail store to purchase music, for example, "Blockbuster"™ (Registered Trademark), the consumer has a limited number of choices to search for music. One reason for the limited number of choices is that conventionally music is classified only in a restricted number of classes, ~~for~~. For example, music may be stored at a retail store under the name of the artists, genre (Rock, ~~blues~~ Blues, Jazz etc.), label, and title of the album, etc. Conventional retailers do not have a mechanism that allows consumers to search for music based upon music content.

Please replace the paragraph that begins on page 3, line 17 with the following:

Hence what is needed is a business method that will efficiently present music to a consumer based upon the consumer's ~~consumers'~~ preferences and allow the consumer ~~consumers~~ to search for music based upon music content.

Please replace the paragraph that begins on page 4, line 9 with the following:

One advantage of the present invention is that ~~that~~ [[,]] a retail store, brick and mortar or ~~On-~~ line-on line, can provide a tool to consumers for efficiently searching for music based upon music content.

Please replace the paragraph that begins on page 4, line 18 with the following:

Figure 2 is a block diagram of the architecture of the computing system of ~~Fig.~~ Figure 1.

Please replace the paragraph that begins on page 5, line 8 with the following:

~~Fig.~~ Figure 1 is a block diagram of a computing system for executing computer executable process steps, according to one aspect of the present invention. Figure 1 includes a host computer 10 and a monitor 11. Monitor 11 may be a CRT type, a LCD type, or any other type of color or monochrome display device. Also provided with computer 10 is a keyboard 13

for entering text data and user commands, and a pointing device 14 for processing objects displayed on monitor 11.

Please replace the paragraph that begins on page 5, line 23 with the following:

A modem, an integrated services digital network (ISDN) connection, or the like also provides computer 10 with an Internet connection 12 to the World Wide Web (WWW). The Internet connection 12 allows computer 10 to download data files, audio files, application program files and computer-executable process steps embodying the present invention. Computer 10 is also provided with external audio speakers 17A and 17B to assist a listener to listen to music either ~~on-line~~ on line, downloaded from the Internet or off-line using a CD (not shown). It is noteworthy that a listener may use headphones instead of audio speakers 17A and 17B to listen to music.

Please replace the paragraph that begins on page 6, line 6 with the following:

Figure 2 is a block diagram showing the internal functional architecture of computer 10. Computer 10 includes a CPU 201 for executing computer-executable process steps and interfaces with a computer bus 208. Also shown in Figure 2 are a WWW interface 202, a display device interface 203, a keyboard interface 204, a pointing device interface 205, an audio interface 209, and a rotating disk 15. Audio ~~Interface~~ interface 209 allows a listener to listen to music, ~~On-line~~ on line (downloaded using the Internet or a private network) or off-line (using a CD, not shown)).

Please replace the paragraph that begins on page 6, line 23 with the following:

The present invention is not limited to the computer architecture described above. Systems comparable to ~~Computer~~ computer 10 for example, ~~Portable~~ portable devices like the Palm Pilot, a registered trademark, that can be connected to the Internet may also be used to implement the present inventive techniques.

Please add the following paragraphs on page 8, beginning on line 17, after the paragraph ending with "...entirety" and before the paragraph beginning with "User defined..."

--Although the entirety of the above mentioned application is incorporated by reference and forms part of this application the following information provides a summary of various music attributes described in greater detail in that application.

One process compares a plurality of music samples, wherein comparing feature vectors compares the music samples. Examples of some feature vectors defined by the process are as follows:

An emotional quality vector, wherein the emotional quality vector is based upon a music listener's response to questions regarding a music sample indicating if the music sample is Intense, Happy, Sad, Mellow, Romantic, Heartbreaking, Aggressive, or Upbeat, etc.;

A vocal quality vector, wherein the vocal vector is based upon a music listener's response to questions regarding a music sample indicating that the music sample includes a Sexy voice, a Smooth voice, a Powerful voice, a Great voice, or a Soulful voice, etc.;

A sound quality vector, wherein the sound quality vector is based upon a music listener's response to questions regarding a music sample indicating if the music sample has a Strong beat, is simple, has a good groove, is speech like, or emphasizes a melody, etc.;

A situational quality vector, wherein the situational quality vector is based on a music listener's response to questions regarding a music sample indicating if the music sample is good for a workout, a shopping mall, a dinner party, a dance party, slow dancing, or studying;

A genre vector, wherein the genre vector depends upon an expert listener's response to the questions regarding a music sample indicating if the music sample belongs to a plurality of genres including, Alternative, Blues, Country, Electronic/Dance, Folk, Gospel, Jazz, Latin, New Age, R&B, Soul, Rap, Hip-Hop, Reggae, Rock or others;

An ensemble vector, wherein the ensemble vector depends upon an experts listener's response to questions regarding a music sample indicating whether the music sample includes a female solo, male solo, female duet, male duet, mixed duet, female group, male group or instrumental; and

An instrument vector, wherein the instrument vector depends upon an expert listener's response to questions regarding a music sample indicating whether the music sample includes an acoustic guitar, electric guitar, bass, drums, harmonica, organ, piano, synthesizer, horn, or saxophone.

One of the advantages of the present system is that feature vectors can describe music content. This assists in creating a music space for various attributes of music.

Another advantage of the present invention is that since the feature vectors define music attributes, music can be searched based upon music content.--

Please replace the paragraph that begins on page 9, line 1 with the following:

In step S401, a consumer is provided with UI 400. The consumer may be provided with UI 400 on computing system 10. UI 400 may be provided to a consumer who shops at a brick and mortar retail store, for example at "Blockbuster[®]", or to a consumer shopping on line via the Internet while the consumer is visiting an on line retail store, for example, Amazon.com[®] (Registered Trademark), or CDNOW[™] (Registered Trademark). A UI similar to UI 400 may be also provided to a consumer on a CD-ROM that also has audio samples.

Please replace the paragraph that begins on page 9, line 7 with the following:

In step S402, the consumer inputs search parameters. An example of one such consumer request may be to [[["]]search for music that is a [[["]]cross over between "Blues" and "Jazz", has a male vocalist, with a saxophone as a prominent instrument and the music is "Sad". The consumer inputs the search parameters in UI 400. An example of UI 400 is provided in ~~Figure~~ Figures 4C1, 4C2 and 4C3. Besides inputting search parameters, the consumer may be asked to input consumer information to create a consumer profile. Such information may include, but is not limited to, consumer, name, address, phone number, electronic mail address, credit card number, other consumer preferences, choices, and tastes etc. Consumer profile information collected via UI 400 may be used to associate consumer likes and dislikes based upon the music purchased, the music sampled and/or music that is not purchased. Consumer defined search parameters may be stored and linked with a consumers's identity. For example, after a consumer's email and other information is acquired, the consumer may be given a unique

identification number. Consumers ~~address~~ may also be given the choice to pick a user identity.
~~Consumer's~~ A consumer's email ~~addresses~~ address may be used for identification.

Please replace the paragraph that begins on page 10, line 15 with the following:

In step S407, the process determines if a consumer ~~want~~ wants to listen to any particular music from the sample list. If the consumer wants to listen to any particular sample, then in step S408, music samples are proved to the consumer and the consumer may be asked if the consumer wants to purchase the sampled music. If the consumer wants to purchase any particular music then the sale transaction is completed in step S409. If the consumer is in a retail store, the consumer may pay by cash, check or credit card. A consumer shopping on line may pay by credit or debit card or other similar means.

Please replace the paragraph that begins on page 11, line 19 with the following:

In step S4002, determine if the consumer is a repeat customer. This ~~maybe~~ may be determined by tracking the consumer identification number.

Please replace the paragraph that begins on page 11, line 21 with the following:

In step S4003, determine if the consumer wants to use a previous music search parameters.

Please replace the paragraph that begins on page 11, line 22 with the following:

In step S4004, if the consumer wants to use a previous search, the process proceeds to step S403 (Fig. Figure 4B).

Please replace the paragraph that begins on page 11, line 24 with the following:

If the consumer wants a new search, then in step S4005, the process moves to step S402, ~~Fig.~~ Figure 4B.

Please replace the paragraph that begins on page 12, line 4 with the following:

In step S501, user searches for particular music using UI 400 and decides to purchase some music. If the user is at a store then a purchase ticket (printed or electronic) is issued to the

user. If the user is buying ~~online~~ on line, a set of alphanumeric characters (transaction identification number) may be provided to the user.

Please replace the paragraph that begins on page 12, line 21 with the following:

One advantage of the present invention is that, a retail store, brick and mortar or ~~On-line~~ on line can provide a tool to consumers for efficiently searching for music based upon music content.